Products.java

```
package com.ecommerce;
import java.sql.*;
public class Products {
 public static void main(String[] args) {
 try {
 // Step 1: Set up the database connection
 String url = "jdbc:mysql://localhost/ecommerce";
 String username = "root";
 String password = "root";
 Connection connection = DriverManager.getConnection(url, username,
password);
 // Step 2: Fetch data and count products of similar types
 countSimilarProducts(connection);
 // Close the database connection
 connection.close();
 } catch (SQLException e) {
 e.printStackTrace();
 }
 }
 private static void countSimilarProducts(Connection connection) throws
SQLException {
 String countQuery = "SELECT product_type, COUNT(*) AS
similar_products_count FROM products GROUP BY product_type";
 Statement statement = connection.createStatement();
 ResultSet resultSet = statement.executeQuery(countQuery);
 System.out.println("Product Type | Count");
 System.out.println("----------------------");
 while (resultSet.next()) {
 String productType = resultSet.getString("product_type");
 int count = resultSet.getInt("similar_products_count");
```

```
 System.out.println(productType + " | " + count);
 }
 resultSet.close();
 statement.close();
 }
}
```

SQL DataBase

```
CREATE DATABASE ecommerce;
USE ecommerce;
CREATE TABLE products (
 s_no INT PRIMARY KEY AUTO_INCREMENT,
 product_name VARCHAR(255),
 product_price DECIMAL(10, 2),
 manufacturing_year INT,
 product_type VARCHAR(50)
);
INSERT INTO products (product_name, product_price, manufacturing_year, product_type)
VALUES
 ('Product 1', 2000, 2020, 'Type C'),
 ('Product 2', 3049, 2019, 'Type D'),
 ('Product 3', 5743, 2021, 'Type A),
 ('Product 4', 5332, 2018, 'Type D'),
 ('Product 5', 3423, 2022, 'Type B'),
 ('Product 6', 2234, 2017, 'Type C'),
 ('Product 7', 5326, 2023, 'Type D'),
 ('Product 8', 8183, 2020, 'Type A'),
 ('Product 9', 2112, 2019, 'Type B'),
 ('Product 10', 1122, 2021, 'Type C');
```